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1 [Middleware for replication and transactions: Ganymed: scalable replication for transactional web applications](#)

Christian Plattner, Gustavo Alonso

 October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(295.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Data grids, large scale web applications generating dynamic content and database service providing pose significant scalability challenges to database engines. Replication is the most common solution but it involves difficult trade-offs. The most difficult one is the choice between scalability and consistency. Commercial systems give up consistency. Research solutions typically either offer a compromise (limited scalability in exchange for consistency) or impose limitations on the data schema an ...

2 [Practitioner reports: Service-oriented architecture and business process choreography in an order management scenario: rationale, concepts, lessons learned](#)

Olaf Zimmermann, Vadim Doubrovski, Jonas Grundler, Kerard Hogg

 October 2005 **Companion to the 20th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '05**

Publisher: ACM Press

 Full text available: pdf(437.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Effective and affordable business-to-business process integration is a key success factor in the telecommunications industry. A large telecommunication wholesaler, supplying its services to more than 150 different service retailers, enhanced the process integration capabilities of its core order management system through widespread use of SOA, business process choreography and Web services concepts. This core order management system processes 120 different complex order types. On this project, ch ...

Keywords: B2B, BPEL, HTTP, J2EE, SOAP, WSDL, XML, application server, best practices, business process, order management, process choreography, process integration, service-oriented architecture, telecommunications, web application, web services, workflow

3 Web mining and clustering: FS-Miner: efficient and incremental mining of frequent sequence patterns in web logs



Maged El-Sayed, Carolina Ruiz, Elke A. Rundensteiner

November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management**

Publisher: ACM Press

Full text available: pdf(333.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mining frequent patterns is an important component of many prediction systems. One common usage in web applications is the mining of users' access behavior for the purpose of predicting and hence pre-fetching the web pages that the user is likely to visit.

In this paper we introduce an efficient strategy for discovering frequent patterns in sequence databases that requires only two scans of the database. The first scan obtains support counts for subsequences of length two. The second s ...

Keywords: frequent patterns, incremental mining, prediction, prefetching, sequence mining, traversal patterns, web logs, web usage mining

4 The Purdue University network-computing hubs: running unmodified simulation tools via the WWW



Nirav H. Kapadia, José A. B. Fortes, Mark S. Lundstrom

January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(110.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the Web interface management infrastructure of a functioning network-computing system (PUNCH) that allows users to run unmodified simulation packages at geographically dispersed sites. The system currently contains more than fifty university and commercial simulation tools, and has been used to carry out more than two hundred thousand simulations via the World Wide Web. Dynamically-constructed virtual URLs allow the Web interface management infrastructure to support the ...

Keywords: Internet computing, network-computing, web-based simulation

5 Comparing industry benchmarks for J2EE application server: IBM's trade2 vs Sun's ECperf

Yan Zhang, Anna Liu, Wei Qu

February 2003 **Proceedings of the twenty-sixth Australasian conference on Computer science: research and practice in information technology ACSC '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(363.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

As the Internet and enterprise wide distributed systems become more prevalent in business IT systems, numerous advanced COTS (commercial off-the-shelf) middleware technologies have appeared on the market. One such leading middleware technology type is Sun's Java 2 Enterprise Edition (J2EE) technology. At present, there is an abundance of J2EE application server implementations in the marketplace with almost no discerning differences. The different product vendors all claim to have implemented th ...

Keywords: COTS, benchmark, component-based system, empirical results, middleware

6 On the quantification of e-business capacity



Moises Goldszmidt, Derek Palma, Bikash Sabata

October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**

Publisher: ACM Press

Full text available: pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In order for current e-Businesses to mature from hastily assembled systems and applications, formal processes must be put in place for planning and budgeting, pricing and costing, and for establishing quality of service and service--level assurances. There are many challenges that e-Businesses face in formalizing these processes. The most important problem is to bridge the semantic disconnect between business objectives and the information system performance objectives. Next, the characterizatio ...

7 Middleware: Designing a test suite for empirically-based middleware performance prediction

Yan Liu, Ian Gorton, Anna Liu, Ning Jiang, Shiping Chen

February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of the major problems in building large-scale enterprise systems is anticipating the performance of the eventual solution before it has been built. This problem is especially germane to modern Internet-based e-business applications, where failure to provide high performance and scalability can lead to application and business failure. The fundamental software engineering problem is compounded by many factors, including application diversity, architectural trade-offs and options, COTS compone ...

Keywords: COTS, component-based system, empirical results, middleware, performance modelling, prototype

8 A survey of research and practices of Network-on-chip



Tobias Bjerregaard, Shankar Mahadevan

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The scaling of microchip technologies has enabled large scale systems-on-chip (SoC). Network-on-chip (NoC) research addresses global communication in SoC, involving (i) a move from computation-centric to communication-centric design and (ii) the implementation of scalable communication structures. This survey presents a perspective on existing NoC research. We define the following abstractions: system, network adapter, network, and link to explain and structure the fundamental concepts. First, r ...

Keywords: Chip-area networks, GALS, GSI design, NoC, OCP, SoC, ULSI design, communication abstractions, communication-centric design, interconnects, network-on-chip, on-chip communication, sockets, system-on-chip

9 Research sessions: potpourri: Workflow management with service quality guarantees



Michael Gillmann, Gerhard Weikum, Wolfgang Wonner

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available:  pdf(1.29 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Workflow management systems (WFMS) that are geared for the orchestration of business processes across multiple organizations are complex distributed systems: they consist of multiple workflow engines, application servers, and communication middleware servers such as ORBs, where each of these server types can be replicated on multiple computers for scalability and availability. Finding an appropriate system configuration with guaranteed application-specific quality of service in terms of throughpu ...

10 Consistency and replication: Application specific data replication for edge services



Lei Gao, Mike Dahlin, Amol Nayate, Jiandan Zheng, Arun Iyengar

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(476.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The emerging edge services architecture promises to improve the availability and performance of web services by replicating servers at geographically distributed sites. A key challenge in such systems is data replication and consistency so that edge server code can manipulate shared data without incurring the availability and performance penalties that would be incurred by accessing a traditional centralized database. This paper explores using a distributed object architecture to build an edge s ...

Keywords: availability, data replication, distributed objects, edge services, performance, wide area networks (WAN)

11 Global nested transaction management for ODMG-compliant multi-database systems



Thomas Tesch, Jürgen Wäsch

January 1997 **Proceedings of the sixth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  pdf(1.15 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

12 The use of web structure and content to identify subjectively interesting web usage patterns



Robert Cooley

May 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 2

Publisher: ACM Press

Full text available:  pdf(540.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The discipline of Web Usage Mining has grown rapidly in the past few years, despite the crash of the e-commerce boom of the late 1990s. Web Usage Mining is the application of data mining techniques to Web clickstream data in order to extract usage patterns. Yet, with all of the resources put into the problem, claims of success have been limited and are often tied to specific Web site properties that are not found in general. One reason for the limited success has been a component of Web Usage Mi ...

Keywords: Data mining, Web usage mining, World Wide Web

13 Design-time simulation of a large-scale, distributed object system

Svend Frølund, Pankaj Garg

October 1998 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,

Volume 8 Issue 4

**Publisher:** ACM PressFull text available: pdf(896.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a case study in using simulation at design time to predict the performance and scalability properties of a large-scale distributed object system. The system, called Consul, is a network management system designing to support hundreds of operators managing millions of network devices. It is essential that a system such as Consul be designed with performance and scalability in mind, but due to Consul's complexity and scale, it is hard to reason about performance and scalability us ...

Keywords: distributed object systems design, performance modeling, relative reasoning, scalability analysis

14 Information systems outsourcing: a survey and analysis of the literature



Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4**Publisher:** ACM PressFull text available: pdf(1.51 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highlight ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

15 Capacity and performance analysis of distributed enterprise systems



James A. Aries, Subhankar Banerjee, Marc S. Brittan, Eric Dillon, Janusz S. Kowalik, John P. Lixvar

June 2002 **Communications of the ACM**, Volume 45 Issue 6**Publisher:** ACM PressFull text available: pdf(97.58 KB) html(33.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Analytic and simulation models enhance the reengineering and tuning of large client/server distributed systems.

16 Technical poster session 3: multimedia tools, end-systems, and applications:

Learning image semantics from users relevance feedback


Amin Shah-Hosseini, Gerald M. Knapp

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia****Publisher:** ACM PressFull text available: pdf(140.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, a learning method is proposed to improve the retrieval process in image databases. This method uses the search transaction logs in the system and user relevance feedback scores to create a semantic space of the image database. The semantic space includes many semantic classes and all the images in the database are clustered to these classes with different membership values. The sparsity problem in the transaction logs data is solved by filling the missing values by an estimatio ...

Keywords: clustering with missing values, image retrieval, image semantics

17 Database research at the University of Oklahoma

 Le Gruenwald, Leonard Brown, Ravi Dirckze, Sylvain Guinepain, Carlos Sanchez, Brian Summers, Sirirut Vanichayobon
September 1999 **ACM SIGMOD Record**, Volume 28 Issue 3

Publisher: ACM Press

Full text available:  pdf(627.13 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

18 Industrial session: new data types and algorithms: Temporal management of RFID data

Fusheng Wang, Peiya Liu

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  pdf(1.08 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

RFID technology can be used to significantly improve the efficiency of business processes by providing the capability of automatic identification and data capture. This technology poses many new challenges on current data management systems. RFID data are time-dependent, dynamically changing, in large volumes, and carry implicit semantics. RFID data management systems need to effectively support such large scale temporal data created by RFID applications. These systems need to have an explicit t ...

19 A new approach to developing and implementing eager database replication protocols



Bettina Kemme, Gustavo Alonso

September 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 3

Publisher: ACM Press

Full text available:  pdf(449.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database replication is traditionally seen as a way to increase the availability and performance of distributed databases. Although a large number of protocols providing data consistency and fault-tolerance have been proposed, few of these ideas have ever been used in commercial products due to their complexity and performance implications. Instead, current products allow inconsistencies and often resort to centralized approaches which eliminates some of the advantages of replication. As an ...


Keywords: database replication, fault-tolerance, group communication, isolation levels, one-copy-serializability, replica control, total error multicast

20 Supporting capacity planning for DB2 UDB

Hamzeh Zawawy, Patrick Martin, Hossam Hassanein

September 2002 **Proceedings of the 2002 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(265.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Capacity planning is the process of determining the most cost-effective computing environment that meets the current and future demands of a computing system. Capacity

planning is important for large database management systems (DBMSs) whose performance can be greatly affected by the amount of available resources and whose workloads can change significantly over time. In this paper, we examine support for capacity planning for DBMSs. We describe an analytical model that is used to estimate perfo ...

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